

Intel DMI / CIMOM* Cross Mappers

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DMI To CIMOM* Data Provider

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Definitions

- Desktop Management Interface (DMI)
- Management Application (MA)
- Management Information Format (MIF)
- Common Information Model (CIM)
- CIM Object Manager (CIMOM*)
- Management Object Format (MOF)
- Remote Procedure Call (RPC)
- Component, Group, Attribute (CGA)



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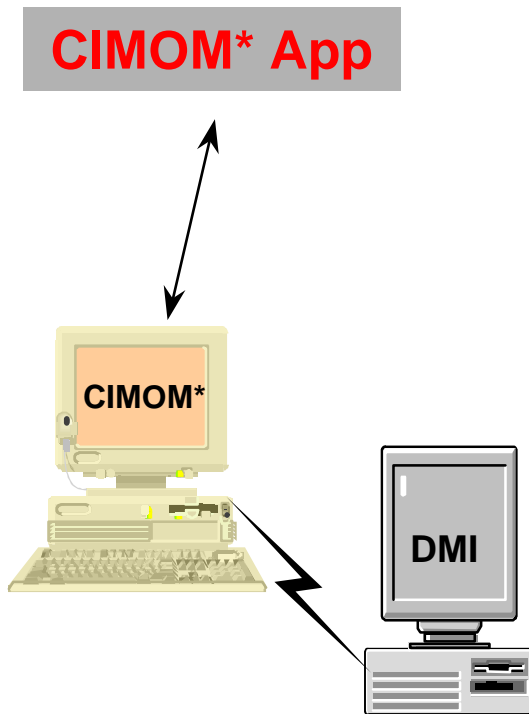
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Agenda

- What Is The DMI Provider
- DMI Provider In The Manageability Stack
- Schema Translation
- Capabilities And Limitations
- Using The DMI Provider
- Information Sources



What Is The DMI Provider



- A CIMOM* data provider for integrating DMI enabled machines into CIMOM* infrastructure
- Helps CIMOM* apps leverage the investment in DMI Instrumentation

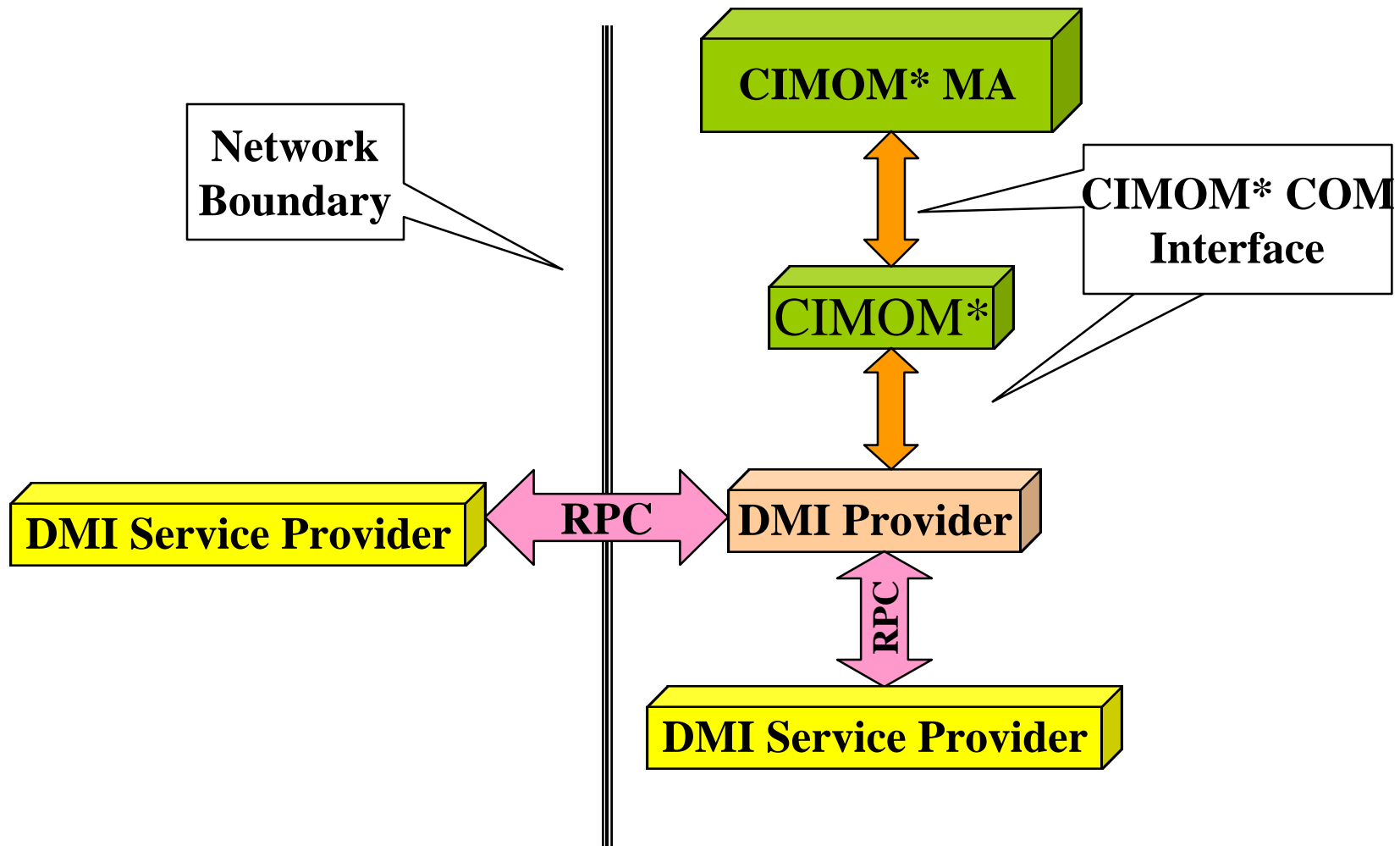
**Provides smooth migration
from DMI to CIMOM***



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DMI Provider In The Manageability Stack



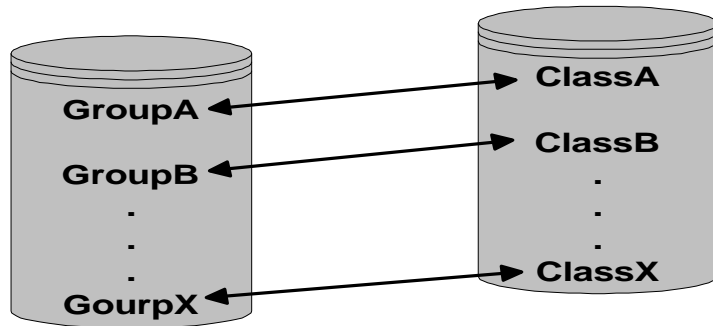
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Schema Translation

DMI MIF Schema

CIM V2.0 Schema

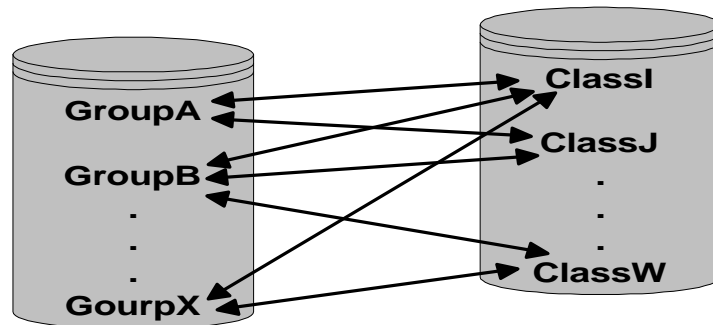


Recast Mapping Technique

- Recast mapping recasts a group as a single CIM class
- Domain Mapping maps a group to one or more CIM classes

DMI MIF Schema

CIM V2.0 Schema



Domain Mapping Technique

**DMI Provider uses
Recast Mapping**



Capabilities And Limitations

- + Access and control all DMI 2.0 CGA data
- + Add/Delete DMI Components and Groups
- + Add/Delete Rows of DMI tabular groups
- + Add/Delete DMI Language mapping
- + Handles DMI notifications and extrinsic Events
- No Language Added/Deleted notifications support
- No Group Added/Deleted notifications support



Using The DMI Provider



- Create a MOF file describing a managed Node



- Compile the MOF file



- Use the provider classes and CIMOM* API to access the managed node



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Information Sources



- DMI Provider updates on Intel's Web site at:
<http://developer.intel.com/ial/wfm/tools/>
- WBEM SDK updates
 - <http://www.microsoft.com/management/wbem/default.htm>

Summary

- DMI enabled machines integrate cleanly into CIMOM* infrastructure
- Investment in DMI instrumentation is maintained, allowing early development of CIMOM* based management applications
- CIMOM* MAs can manage DMI based data while CIMOM* instrumentation is developed



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Next Steps



- Use the DMI Provider during migration from DMI to CIMOM*
- Start porting your management applications to CIMOM*



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CIMOM* To DMI Data Mapper

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Definitions

- Mark's Definitions are still true!
- Component, Group, Attribute, Row (CGAR)
- CIMOM* Data Mapper (CimomPro)
- Systems with both CIMOM* and DMI Management Technologies installed (CIMOM* + DMI)



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Agenda

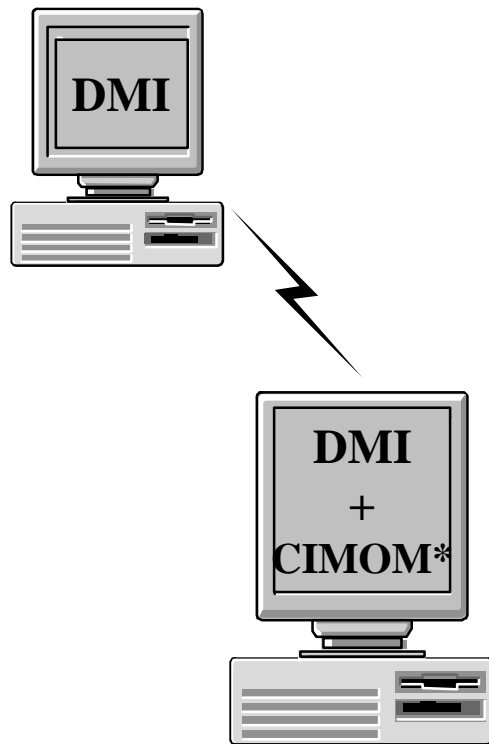
- What is The CIMOM* Data Mapper
- CIMOM* Data Mapper In The Manageability Stack
- Schema Translation
- Capabilities And Limitations
- Using The CIMOM* Data Mapper
- Information Sources



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What is The CIMOM* Data Mapper



- DMI instrumentation for making CIMOM* based manageability data visible to standard DMI Management Applications
- Helps preserve the investment in DMI MAs by providing a view of CIMOM* based information.

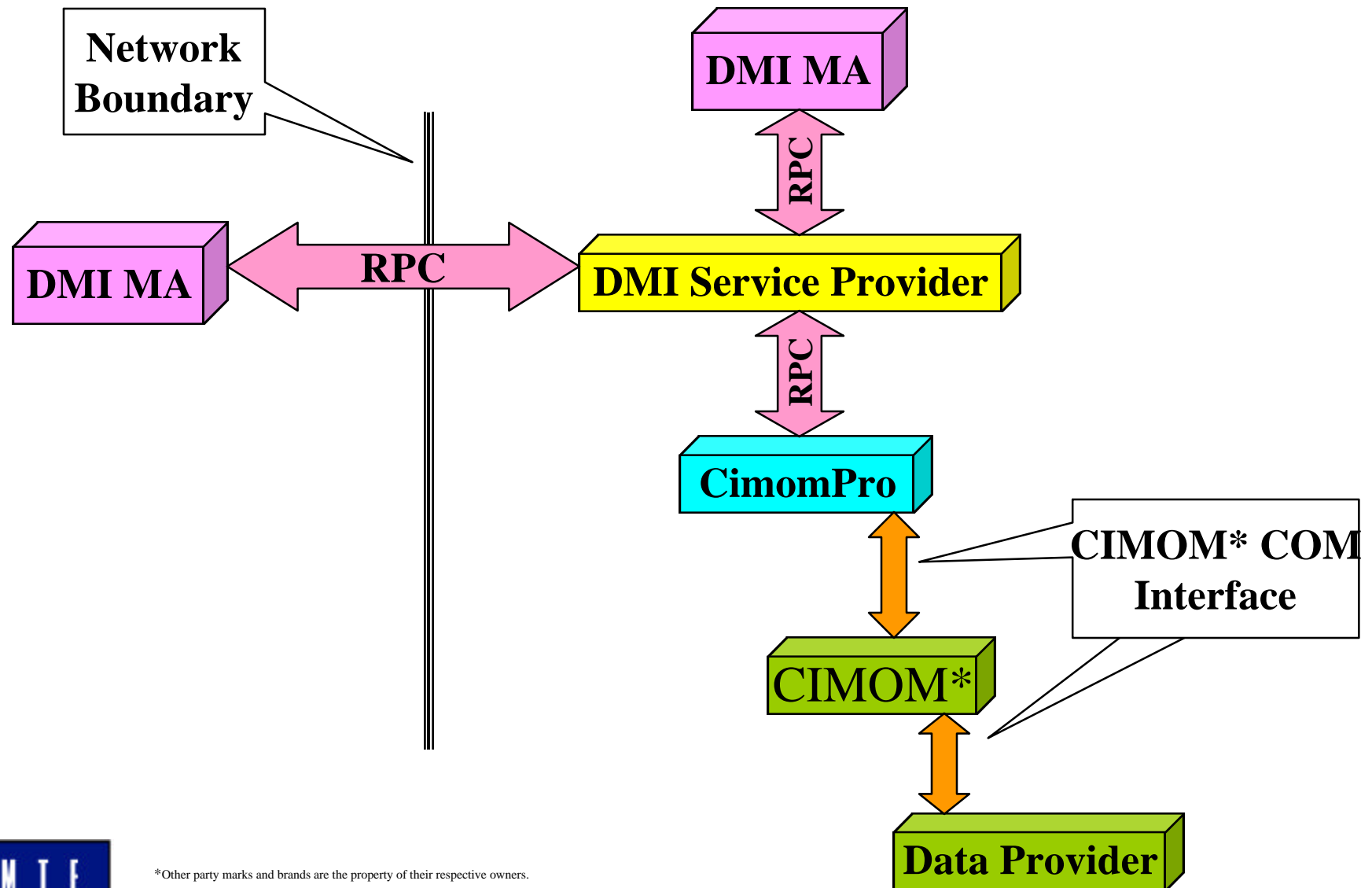
**Makes CIMOM* data available
to DMI applications**



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CIMOM* Data Mapper In The Manageability Stack



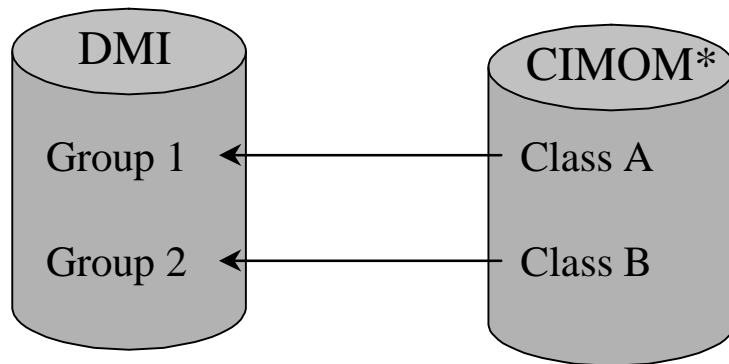
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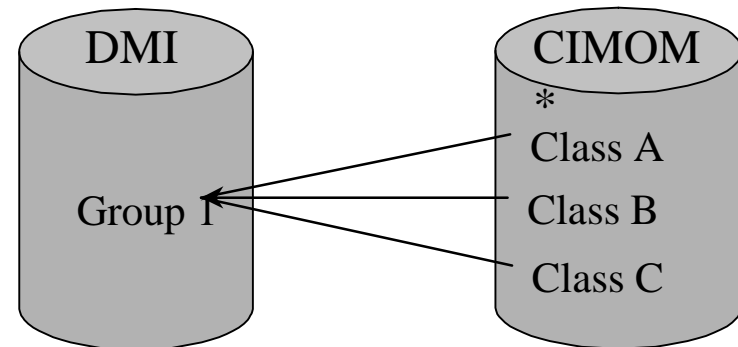
Schema Translation

**CIMOM* Data Mapper supports
both Recast and Domain style
mapping**

Recast-style mapping



Domain-style mapping



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Capabilities And Limitations

- + Access and control CIMOM* data using DMI CGAR
- + No changes to CIMOM* instrumentation for Get/Set
- + Extrinsic events mapped to DMI Standard Events
- +/- No remote access support (handled by DMI SP)
 - Requires a separate namespace (**DmiNodes\MappedToDmi**)
 - Event mapping needs CIMOM* Instrumentation support
- +/- Data must map to DMI data set



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Using The CIMOM* Data Mapper

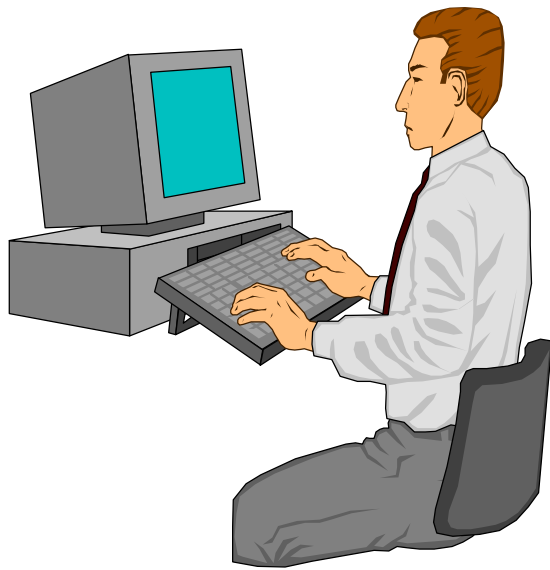
- ✓ • Establish data source(s)
- ✓ • Create a MOF file describing Group View Class(es)
- ✓ • Create a MOF file that creates an instance of DmiComponentView class
- ✓ • Compile the MOF files (groups first)
- ✓ • Use any standard DMI v2.0 Management Application to access the mapped data



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- CIMOM* + DMI enabled machines integrate cleanly into CIMOM* + DMI infrastructures
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Next Steps



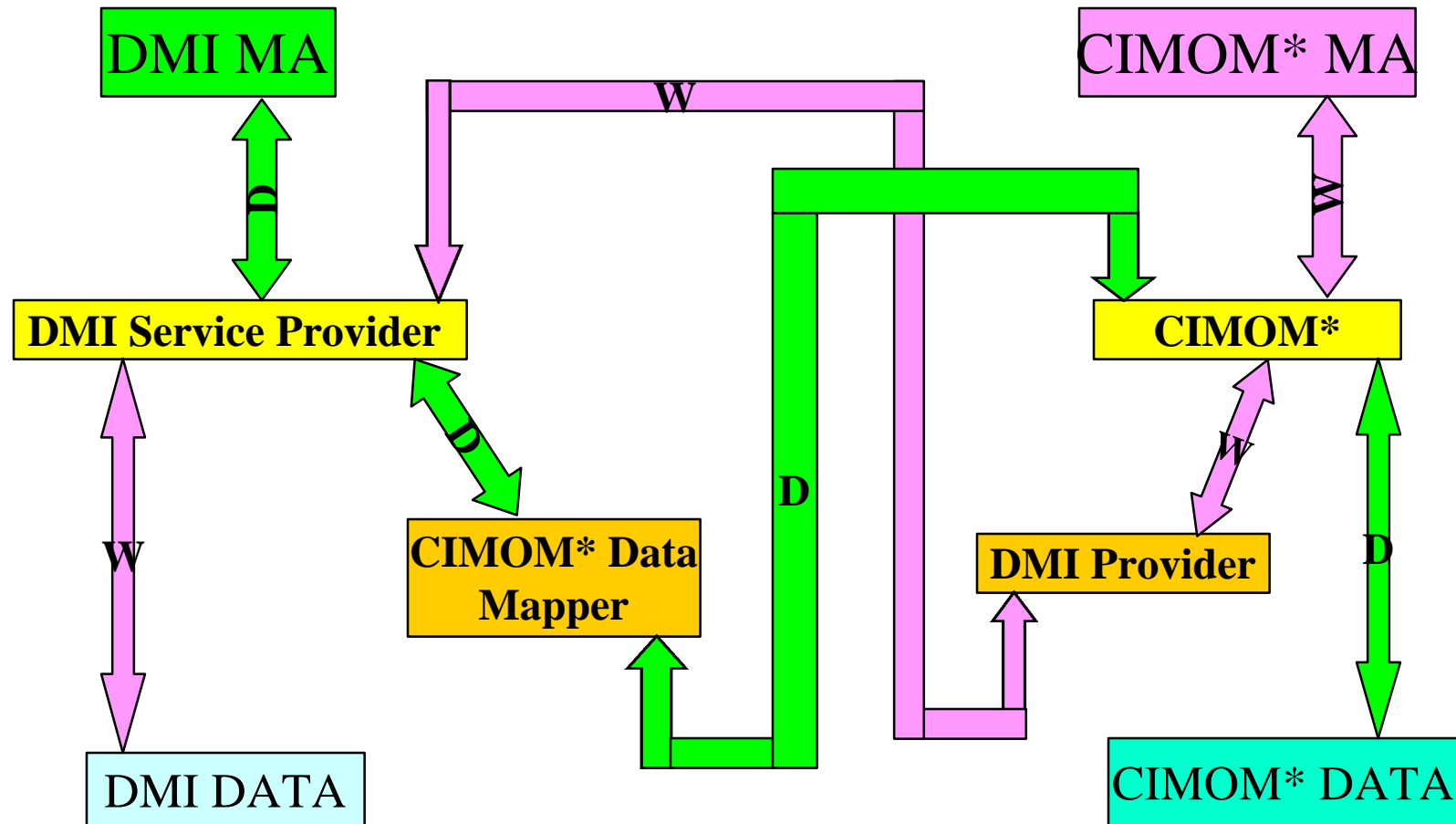
- Use the CIMOM* Data Mapper to manage data with DMI Applications.
- Start migrating your instrumentation to CIMOM*.



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Full DMI/CIMOM* Crossmapped Manageability Stack



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